

XP 002152902

AN - 1978-59705A [33]

**A - [001] 011 03- 06- 09- 230 231 24- 244 245 252 253 259 354 431 435 442
443 446 454 466 47& 470 477 502 532 537 575 596 597 600
- [002] 011 03- 06- 09- 230 231 24- 244 245 252 253 259 354 431 435 442
443 446 454 466 47& 470 477 502 532 537 575 596 597 600**

CPY - HAYB

- SUMO

DC - A18 A35

FS - CPI

IC - B29C27/02 ; C09D7/00

**KS - 0044 0229 1982 1989 2001 2007 2419 2454 2455 2483 2488 2500 2513 2522
2575 2654 2659 2718 2725 2726 2728**

MC - A03-A A11-C01B A12-S06B

**PA - (HAYB) HAYASHIBARA BIOCHEMICAL LAB
(SUMO) SUMITOMO CHEM CO LTD**

PN - JP53079972 A 19780714 DW197833 000pp

PR - JP19760157059 19761224

XIC - B29C-027/02 ; C09D-007/00

**AB - J53079972 Heat-sealing of pullulan (I) film or sheet comprises
applying water to the surface of a sheet composed mainly of (I), and
compressing to adhere the portion treated with water at below b.pt. of
water. The sheet may contain water-soluble substances compatible with
(I) like PVA, sodium arginate and starch or it may be a e.g.
multi-layer composite film comprised of (I) film and e.g. paper,
cellophane, aluminium foil, etc. and is e.g. produced by flowing,
extrusion, coating, etc. to a thickness of 1-3000 mu. Water is
applied by roll, brush, etc. Adhesion by compression is effected by
heat bar type, roll type, high freq. wave packaging machine.**

**- Process provides heat sealing with improved quality and increased
adhesion strength, without foaming.**

IW - HEAT SEAL PULLULAN FILM APPLY WATER SURFACE COMPRESS HEAT BELOW WATER

IKW - HEAT SEAL PULLULAN FILM APPLY WATER SURFACE COMPRESS HEAT BELOW WATER

NC - 001

OPD - 1976-12-24

ORD - 1978-07-14

**PAW - (HAYB) HAYASHIBARA BIOCHEMICAL LAB
(SUMO) SUMITOMO CHEM CO LTD**

**T1 - Heat sealing pullulan films - by applying water to surface and
compressing while heating below b.pt. of water**

102 (b)
1, 46, 52, 56, 74.